# **SERVICE MANUAL**

# VGC-V Series

#### American Area

US Model Canadian Model

Ver. 2-2005E

#### **Revision History**

Line up: VGC-V520G

VGC-V517G

VGC-V620G

VGC-V617G



 Design and specifications are subject to change without notice.

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PERSONAL COMPUTER



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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

#### **Service and Inspection Precautions**

### 1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

#### 2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  $\triangle$  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

# 3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

#### 4. Inspect after completing service

After servicing, inspect to make sure that all

screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

#### 5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

### 6. When handling flexible print boards...

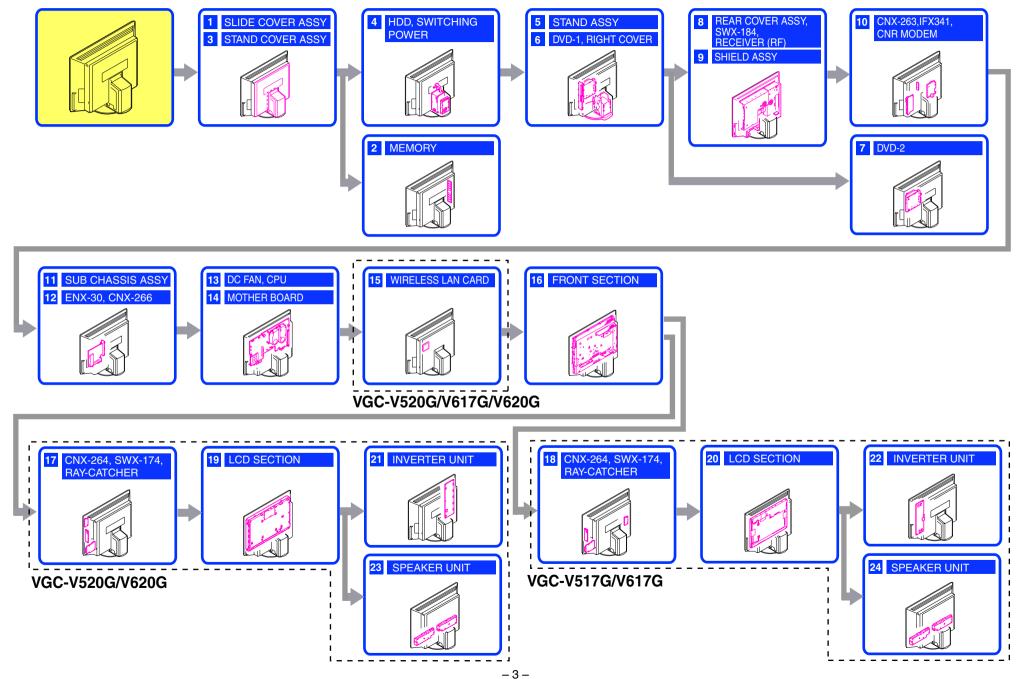
- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

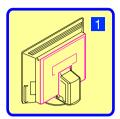
#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

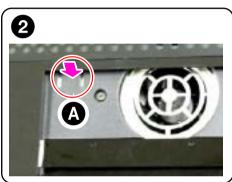
### **DISASSEMBLY**

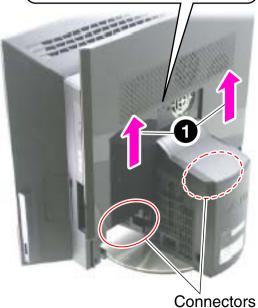


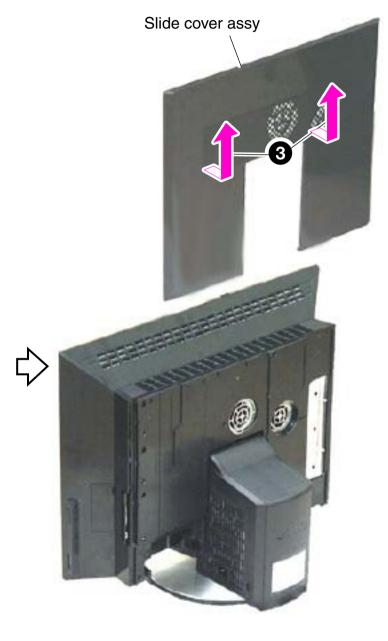
### **DISASSEMBLY**



To Flowchart

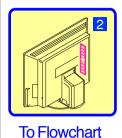


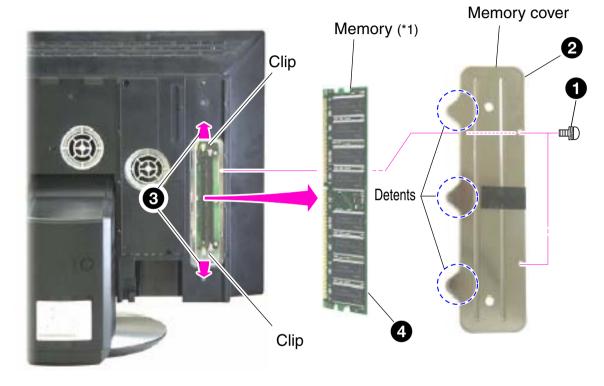




### 1 SLIDE COVER ASSY

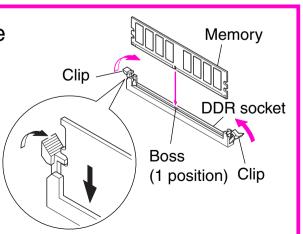
- Move, by sliding, the slide cover assy upward until the connectors on the rear of the set is exposed.
- While pushing the portion (A), move, by sliding, the slide cover assy further upward until the lock is released.
- 3 Remove the slide cover assy on the direction of the arrow.





#### Notes when installing the Memory module

- (1) While the clips are left open, insert the Memory module so that the protrusion of socket enters into the notch of the Memory module.
- (2) When the Memory module is inserted completely, check that the clips are closed.
- (3) Be sure to insert the Memory modules starting from the having the smallest bank number.



# 2 MEMORY

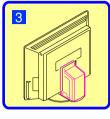
1 Remove the two screws.



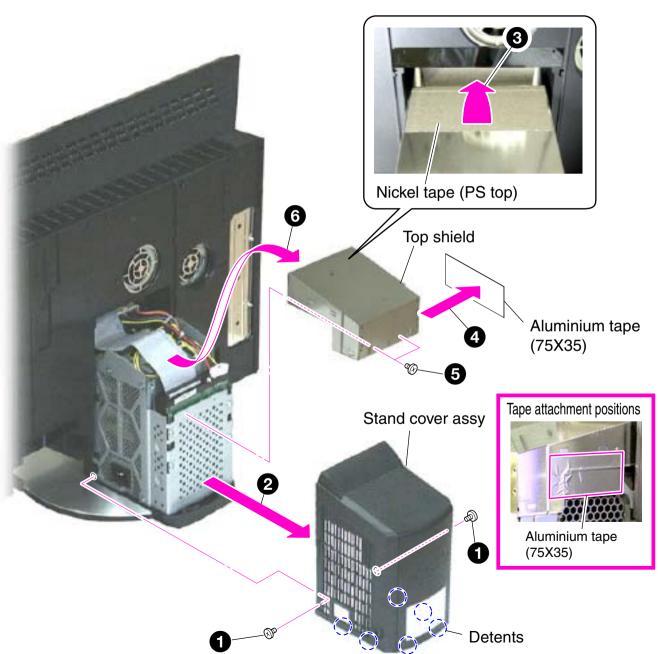
- 2 Disengage the three detents and remove the memory cover.
- 3 Open the two clips.
- Pull out the memory module (\*1) from the board in the vertical direction.

(\*1) Two memory modules are installed on model V520G and V620G.

# **DISASSEMBLY**







### 3 STAND COVER ASSY

1 Remove the two screws.

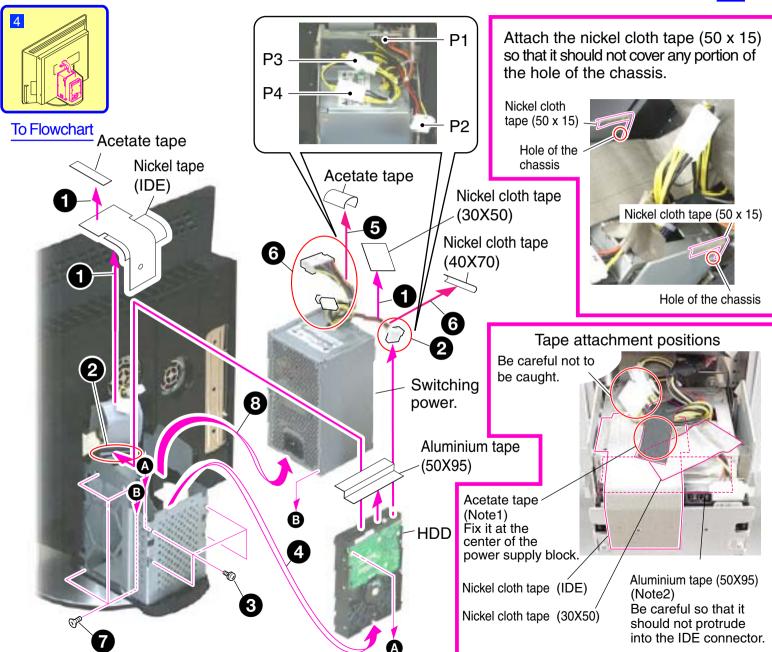


- 2 Disengage the six detents and remove the stand cover assy.
- **3** Turn over the nickel tape (PS top).
- 4 Peel off the aluminium tape (75X35).
- 6 Remove the two screws.



**5** Remove the top shield.

# 4 HDD, SWITCHING POWER



- 1 Peel off the nickel tape (IDE), nickel cloth tape (30X50) and acetate tape.
- 2 Disconnect the two connectors.
- 3 Remove the four screws.



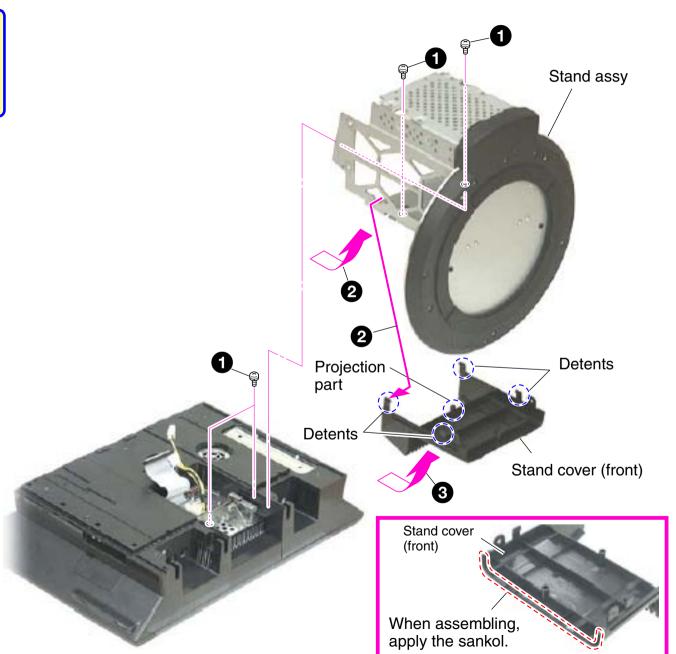
- Peel off the aluminium tape (50X95) and remove the HDD.
- Peel off acetate tape.
- 6 Disconnect the three connectors. Peel off the nickel cloth (40X70).
- **7** Remove the four screws.

Ref. No 165 +K (#6-32UNC 1/4) 2-050-805-01 Black

8 Remove the switching power.

### **DISASSEMBLY**



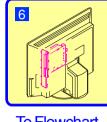


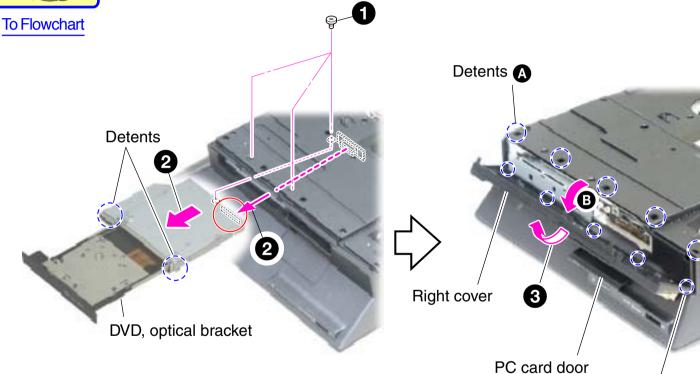
# 5 STAND ASSY

1 Remove the four screws.



- 2 Disengage the four detents and the projection part and remove the stand assy.
- Remove the stand cover (front) in the direction of the arrow.





# 6 DVD-1, RIGHT COVER

Remove the three screws.

Ref. No 170 +B (3X4) 2-067-023-01 Black

2 Move, by sliding, the DVD, optical bracket in the direction shown by the arrow, and remove the DVD, optical bracket together from the set.

Be careful not to give physical stress (such as twisting) or excessive force when removing the DVD, optical bracket.

3 Disengage the five detents (A). While the PC card door is kept open, slant the right cover in the direction of the arrow (B), and remove five detents (C)the remove right cover from the set.

Detents **G** 

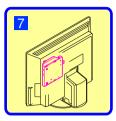
Tape attachment

Nickel tape

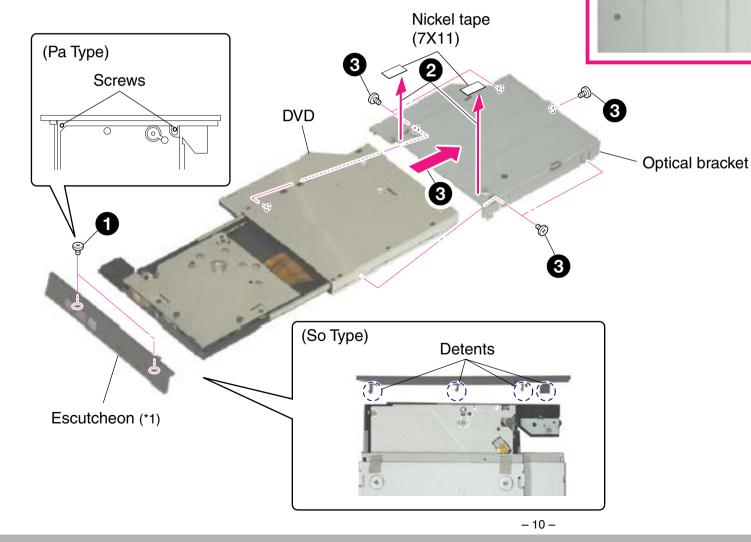
(7X11)

positions

# **DISASSEMBLY**



To Flowchart



# **7** DVD-2

Pa type

1 Remove the two screws,and remove the escutcheon.



So type

 Disengage the four detents and remove the escutcheon.

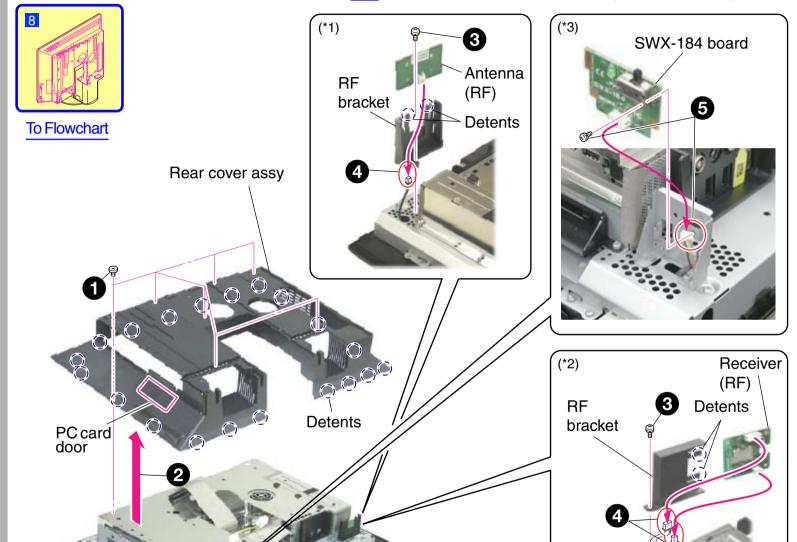
Be careflu not to break the detents

- 2 Peel off the two nickel tape (7X11).
- **3** Remove the five screws and remove the optical bracket.

Ref. No 164 +P (2 X 2) 7-627-853-07 Silver

(\*1) Shape of the escutcheon is different depending on the model.

# 8 REAR COVER ASSY, SWX-184, ANNTENA (RF), RECEIVER (RF)



Remove the seven screws.

Ref. No 170 +B 3X4 2-067-023-01 Black

- Disengage the total 20 detents. Close the PC card door. While the PC card door is kept closed, remove the rear cover assy.
- 3 Remove the screw and remove the RF bracket.



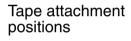
- Disconnect the connector and disengage the two detents, then remove the antenna (RF) (\*1) or receiver (RF) (\*2) from the RF bracket.
- SRemove the screw and remove the SWX-184 board (\*3).

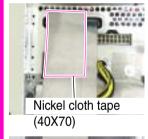


- (\*1) V517G/V617G Model only
- (\*2) V520G/V620G Model only
- (\*3) V520G/V617G/V620G Model only

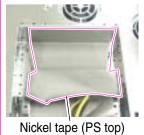


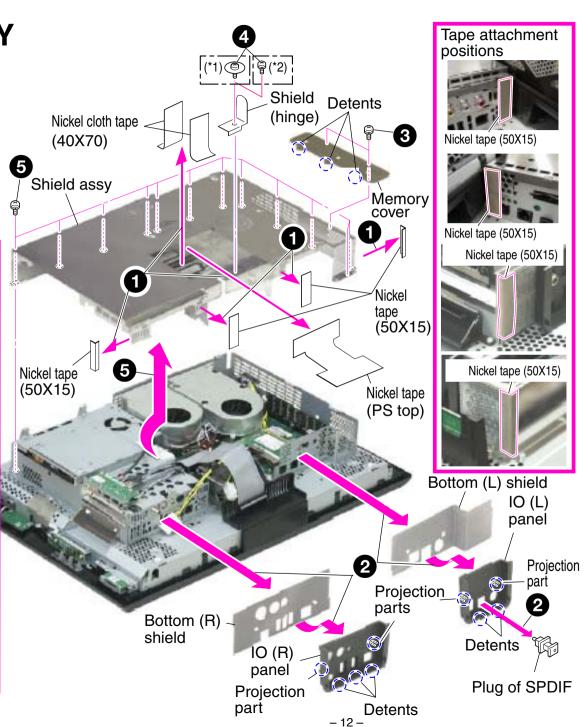
To Flowchart











# 9 SHIELD ASSY

- 1 Peel off the four nickel tape (50X15), nickel tape (PS top) and the two nickel cloth tape (40X70).
- 2 Remove the Plug of SPDIF. Then disengage the three detents, two projection parts and remove the two IO panels and two bottom shields.
- 3 Remove the two screws and remove the memory cover.



4 Remove the two screws and remove the shield (hinge).



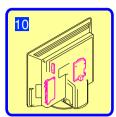


• Remove the twelve screws and remove the shield assy.



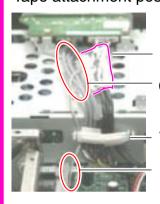
- (\*1) V517G/V520G Model only
- (\*2) V617G/V620G Model only

# 10 CNX-263, IFX-341 CNR MODEM



To Flowchart

IFX-341 board



**TOP** 

Tape attachment positions, routing the cables

Aluminium tape (50X70)

Cross the cable (1)

Wire press clamp

Be careful that the harness should not be located 3 mm or more away from the Mother Board.



Route the harness (**1**) in between the IDE connector and capacitor.

- 1 Remove the wire press clamp and peel off the aluminium tape (50X70) Disconnect the three connector.
- 2 Remove the two screws and remove the CNX-263 board.



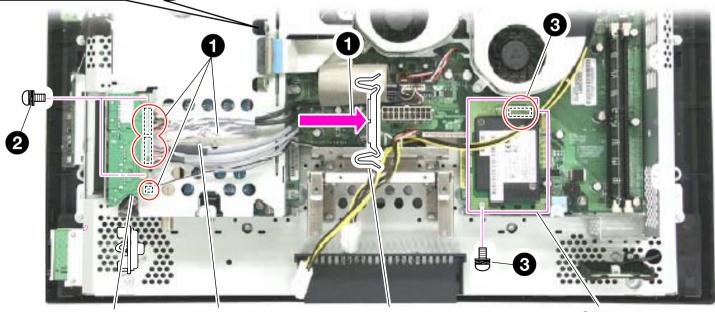
**PARTS LIST** 

3 Remove the screw and disconnect the connector, then remove the CNR modem.

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

4 Remove the two screws and disconnect the connector, then remove the IFX-341 board.

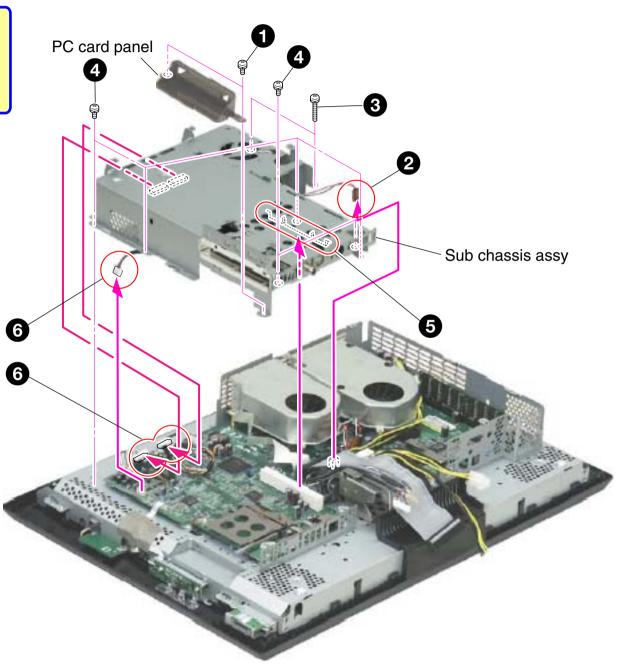
Ref. No 151 +B (2 X 3) 2-108-226-01 Black



CNX-263 board Aluminium tape (50X70) Wire press clamp

**CNR** modem





# 11 SUB CHASSIS ASSY

1 Remove the two screws and remove the PC card panel.

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

- 2 Disconnect the connector.
- Remove the two screws.



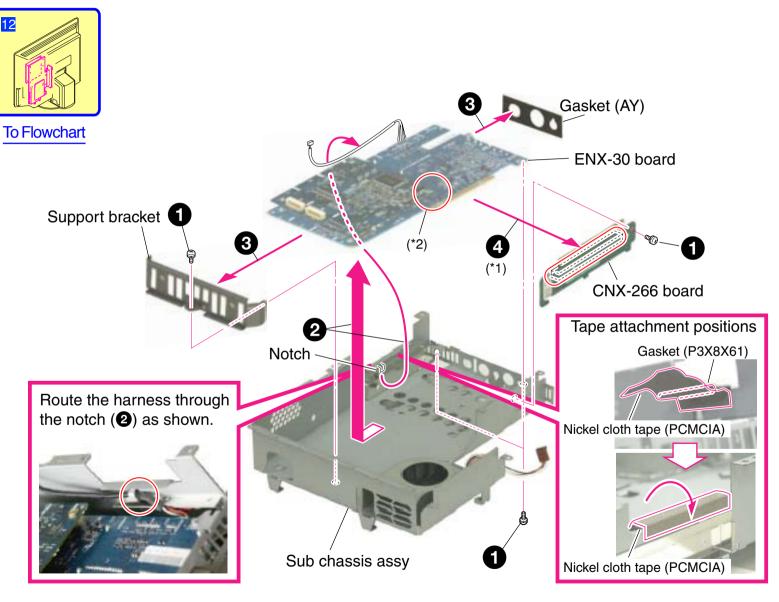
4 Remove the six screws.



- **5** Lift up the sub chassis assy and disconnect the connector.
- **6** Disconnect the three connectors.

**FOR SAFETY** 

# **DISASSEMBLY**



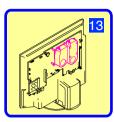
# 12 ENX-30, CNX-266

 Remove the four screws.

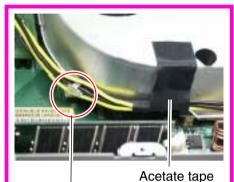


- 2 Remove the harness from the notch. Remove, by sliding, the ENX-30 board and CNX-266 board.
- 3 Remove the gasket (AY) and support bracket.
- **4** Disconnect the connector and remove the CNX-266 board from the ENX-30 board.

- (\*1) When inserting the ENX-30 board into the CNX-266 board, repeat pushing the ENX-30 board twice to ensure the secure connection.
- (\*2) Because there is no support for the CNX-266 board within the encircled area, never touch this portion to avoid any damages.



To Flowchart



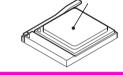
Route the two black harness through the notch as shown. To replace the CPU or heat sink (in case that CPU is equipped with heat sink), install new CPU or heat sink after thermal dissipation grease is wiped off and apply the grease to the position shown in the figure.

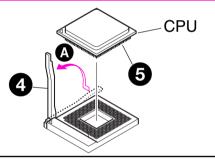
Amount of application:

Thermal dissipation grease: Silicon compound (G-765) 90G 0.5 g (equivalent to twice the size a wooden safety match head)

Take care not to apply the grease to any other places because it has high conductivity.

Grease (on the entire surface of heat splitter)





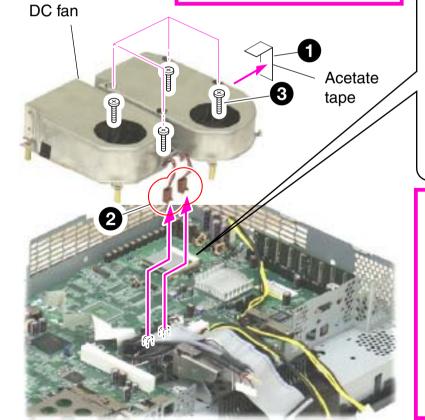
#### Notes on installing the DC fan

During installation, be careful not to damage the chips on the Mother Board as shown in the illustration.



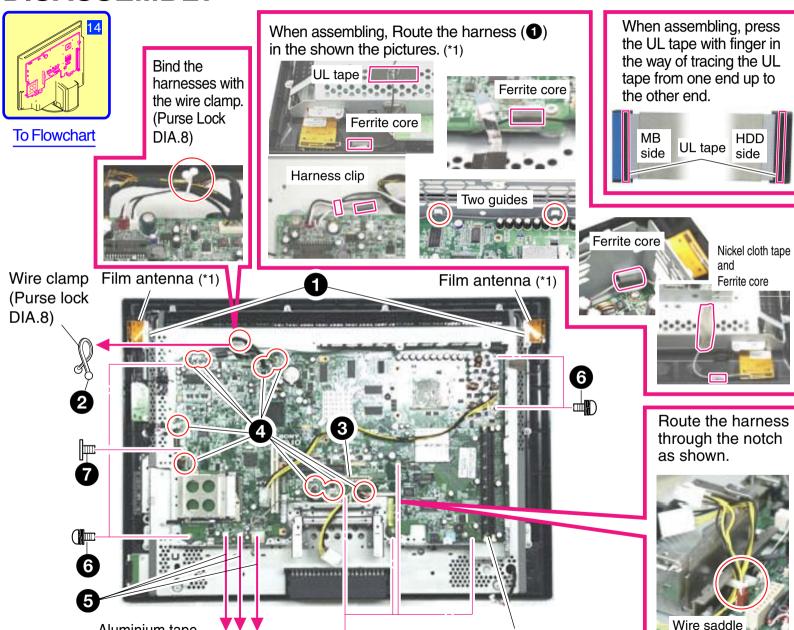
### 13 DC FAN, CPU

- 1 Peel off the acetate tape.
- 2 Disconnect the two connectors.
- Remove the four screws included in the DC fan.
- Raise the lever in the direction of the arrow(A).
- **5** Pull the CPU straight up and remove it.



Aluminium tape

(5X25) (\*2)



# **14** MOTHER BOARD

- Remove the two film antennas and cables (\*1).
- 2 Remove the harness from the wire clamp.
- Remove the harness from the wire saddle.
- 4 Disconnect the nine connectors.
- **5** Peel off the aluminium tape (5X25) (\*2).
- 6 Remove the eight screws.

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

Remove the screw and remove the mother board.

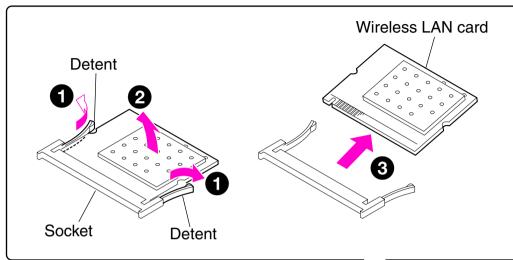
> Ref. No 162 POSITIONING SCREW 4-678-103-01 Silver

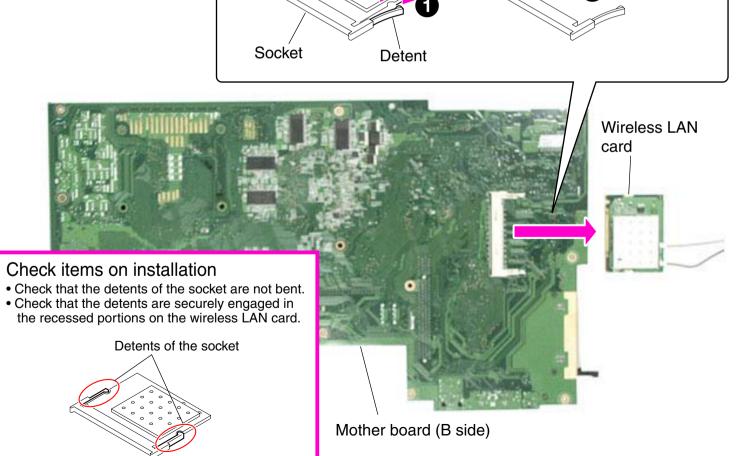
(\*1) V520G/V617G/V620G Model only

Mother board

# 15 WIRELESS LAN CARD (VGC-V520G/V617G/V620G)

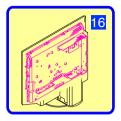




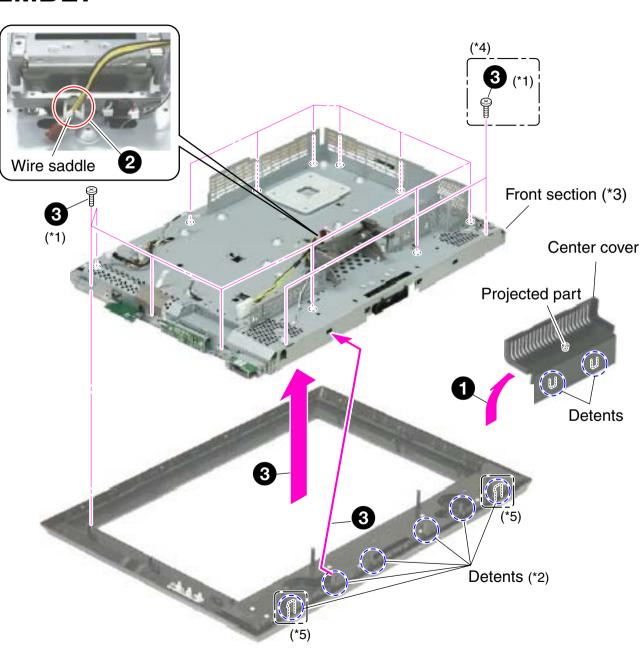


- Open the two detents of the socket gently toward outside.
- 2 Raise the W-LAN card.
- 3 Pull the W-LAN card in an upward angle.

**TOP** 



To Flowchart



### **16** FRONT SECTION

**PARTS LIST** 

Disengage the two detents and remove the center cover.

**EXPLODED VIEW** 

- 2 Remove the cable from the wire saddle.
- 3 Remove the screws (\*1) and disengage the detents (\*2). Remove the LCD section.

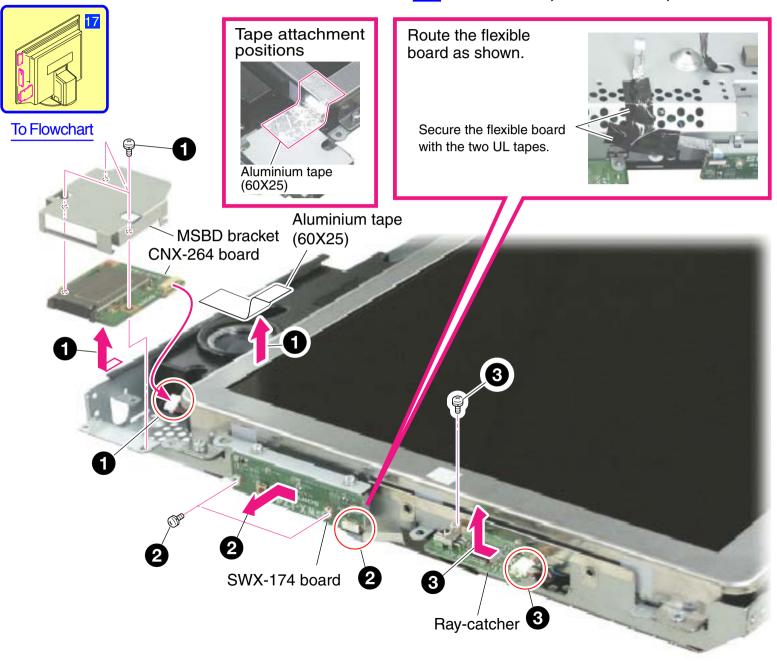


(\*1) Number of screws is different depending on the model. V520G/V620G : 14 screws

V520G/V620G : 14 screws V517G/V617G : 12 screws

- (\*2) Number of detents is different depending on the model. V520G/V620G : 14 detents V517G/V617G : 6 detents
- (\*3) Shape of the front section is different depending on the model.
- (\*4) V520G/V620G Model only (\*5) V517G/V617G Model only

# 17 CNX-264, SWX-174, RAY-CATCHER (VGC-V520G/V620G)



1 Peel off the aluminium tape (60X25) and disconnect the connector, and remove the three screws.

Then remove the MSBD bracket and the CNX-264 board.



2 Disconnect the connector and remove the two screws, and remove the SWX-174 board.



3 Disconnect the connector and remove the screw, then remove the Raycatcher.

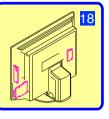
Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

1 Peel off the aluminum

tape (60X25) and

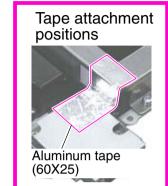
# **DISASSEMBLY**

# 18 CNX-264, SWX-174, RAY-CATCHER (VGC-V517G/V617G)



To Flowchart

Aluminum tape (60X25) SWX-174 board



CNX-264 board

Route the two flexible board through the notch as shown.

Secure the flexible board with the two UL tape.



bracket and the CNX-264 board.

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

disconnect the connector, and

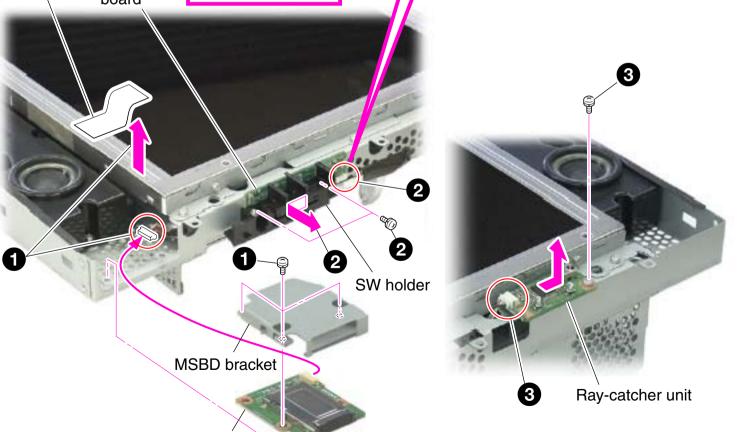
remove the three screws. Then remove the MSBD

2 Disconnect the connector and remove the two screws, and remove the SW holder and the SWX-174 board.

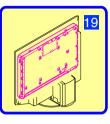


3 Disconnect the connector and remove the screw, then remove the Raycatcher unit.

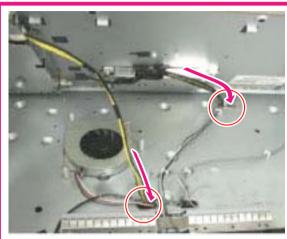




# 19 LCD SECTION (VGC-V520G/V620G)







Route the two flexible boards (3) through the hole of the chassis as shown.

1 Remove the two screws.



**PARTS LIST** 

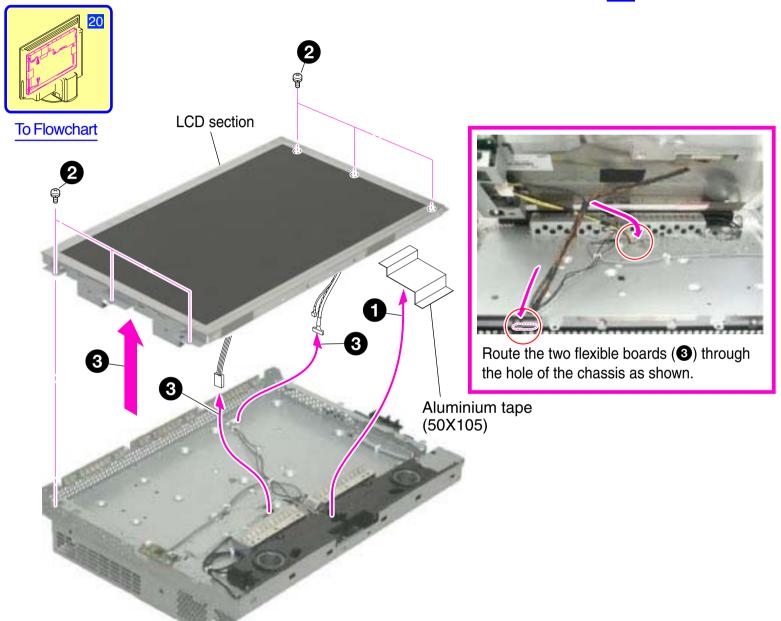
2 Remove the two screws.



While removing the two harnesses through the hole of the chassis, remove the LCD section.

# **DISASSEMBLY**

# 20 LCD SECTION (VGC-V517G/V617G)



- 1 Peel off the aluminium tape (50X105).
- 2 Remove the six screws.



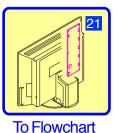
While removing the two harnesses through the hole of the chassis, remove the LCD section.

Shield (inverter)

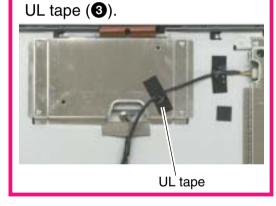
Inverter unit (10 lamps)

### **DISASSEMBLY**

# 21 INVERTER UNIT (VGC-V520G/V620G)



Secure the cable with the



Copper leaf tape

2

**UL** tape

Remove the three screws and remove the shield (inverter).

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

Remove the two screws, disconnect the eight connectors and remove the inverter unit.



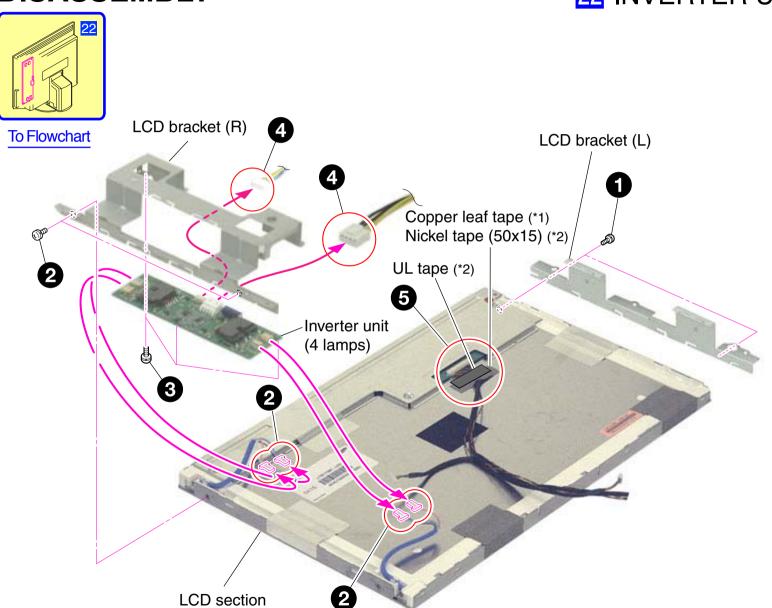
- 3 Peel off the UL tape.
- A Remove the four screws and remove the shield.



5 Peel off the copper leaf tape and disconnect the connector.

LCD section

# 22 INVERTER UNIT (VGC-V517G/V617G)



Remove the two screws and the remove the LCD bracket (L).

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

2 Remove the two screws, disconnect the four connectors and remove the inverter unit, LCD bracket (R).

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

3 Remove the three screws and remove the inverter unit from the LCD bracket (R).



- 4 Disconnect the four connectors.
- Peel off the copper leaf tape (\*1) or nickel tape (50x15), UL tape (\*2) and disconnect the connector.

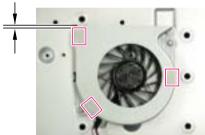
(\*1) V517G Model only (\*2) V617G Model only



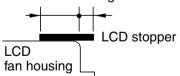
To Flowchart

#### Notes on installing the LCD stopper

Position: 5 mm away from the opening of the fan.



Install it so that about one third of the LCD stopper protrudes from the LCD fan housing.

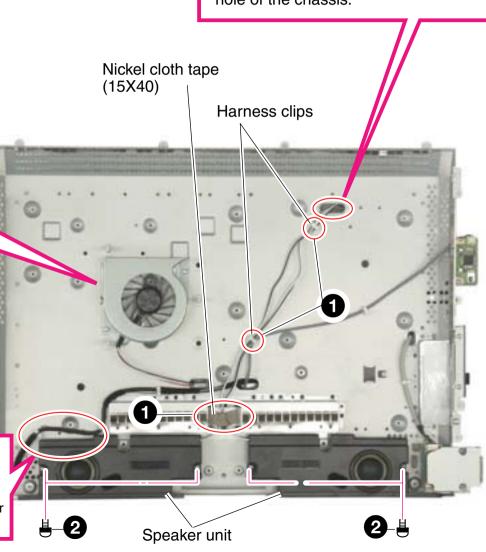


Notes on installing the speaker unit

- Check that any part of the speaker does not ride over the harness.
- Push the harness against the speaker after installing the speaker.

# 23 SPEAKER UNIT (VGC-V520G/V620G)

Fix the harness at the two positions as shown using the nickel cloth tape (IDE) (15 x 40) and the two harness clips. Then route the harness through the hole of the chassis.



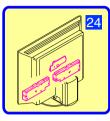
- 1 Peel off the nickel cloth tape (15X40) from the harness of the speaker unit and remove it from the two harness clip.
- 2 Remove the four screws and remove the speaker unit.



**TOP** 

### **DISASSEMBLY**

# 24 SPEAKER UNIT (VGC-V517G/V617G)



Fix the harness at the two positions as shown using the nickel cloth tape (IDE) (15 x 40) and the two harness clips. Then route the harness through the hole of the chassis.

To Flowchart Nickel cloth tape (15X40)Harness clips Main baord (RF) 3 2 3 Detent Speaker unit

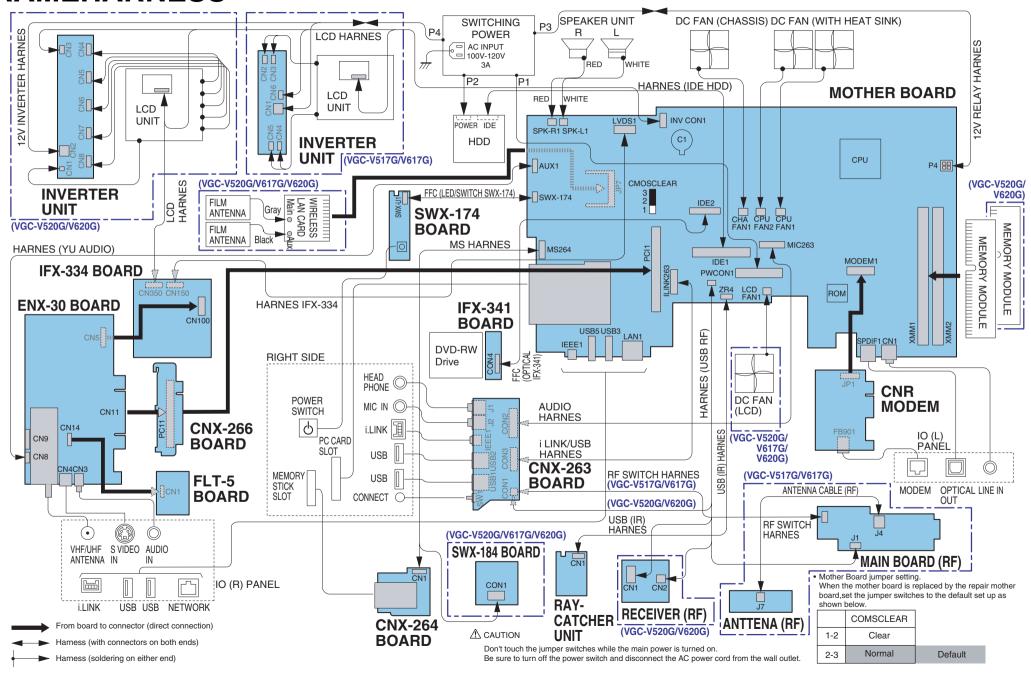
- Disconnect the three connectors.
- 2 Remove the screw and two detent remove the Main board (RF).

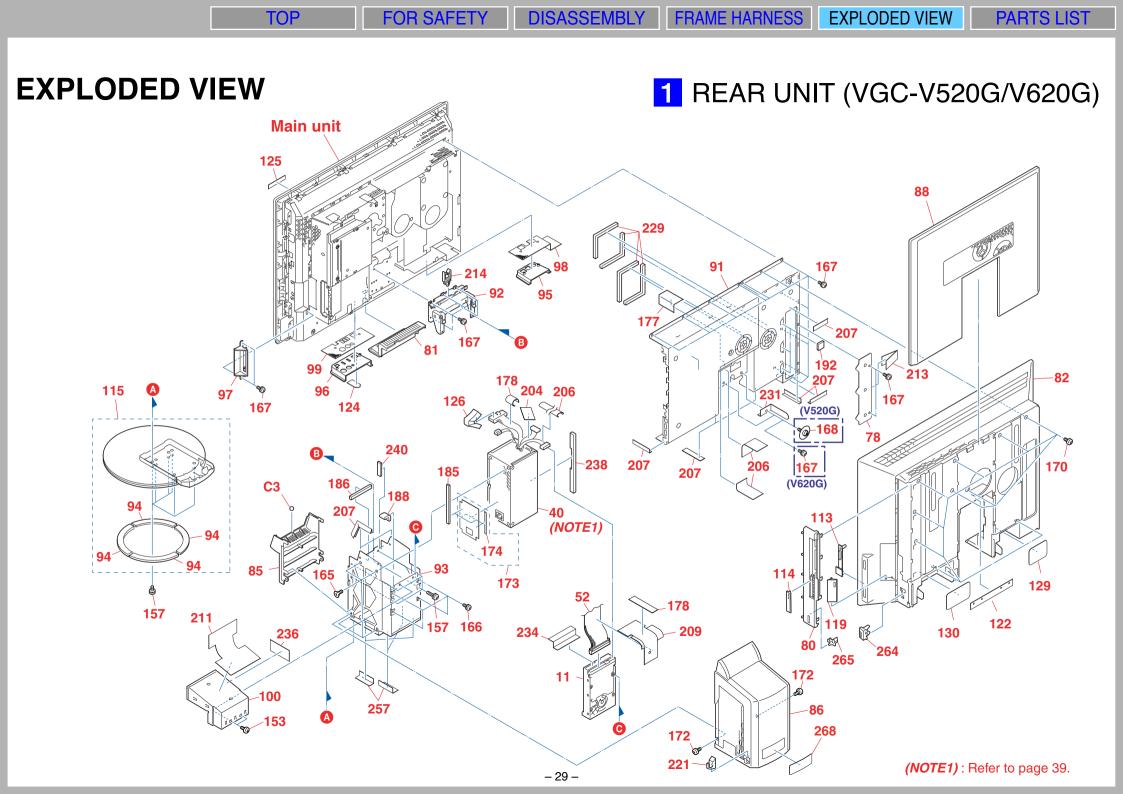


- 3 Peel off the nickel cloth tape (15X40) from the harness of the speaker unit and remove it from the two harness clip.
- 4 Remove the four screws and remove the speaker unit.

Ref. No 167 +PS (3 X 6) 4-679-053-01 Silver

### **FRAMEHARNESS**





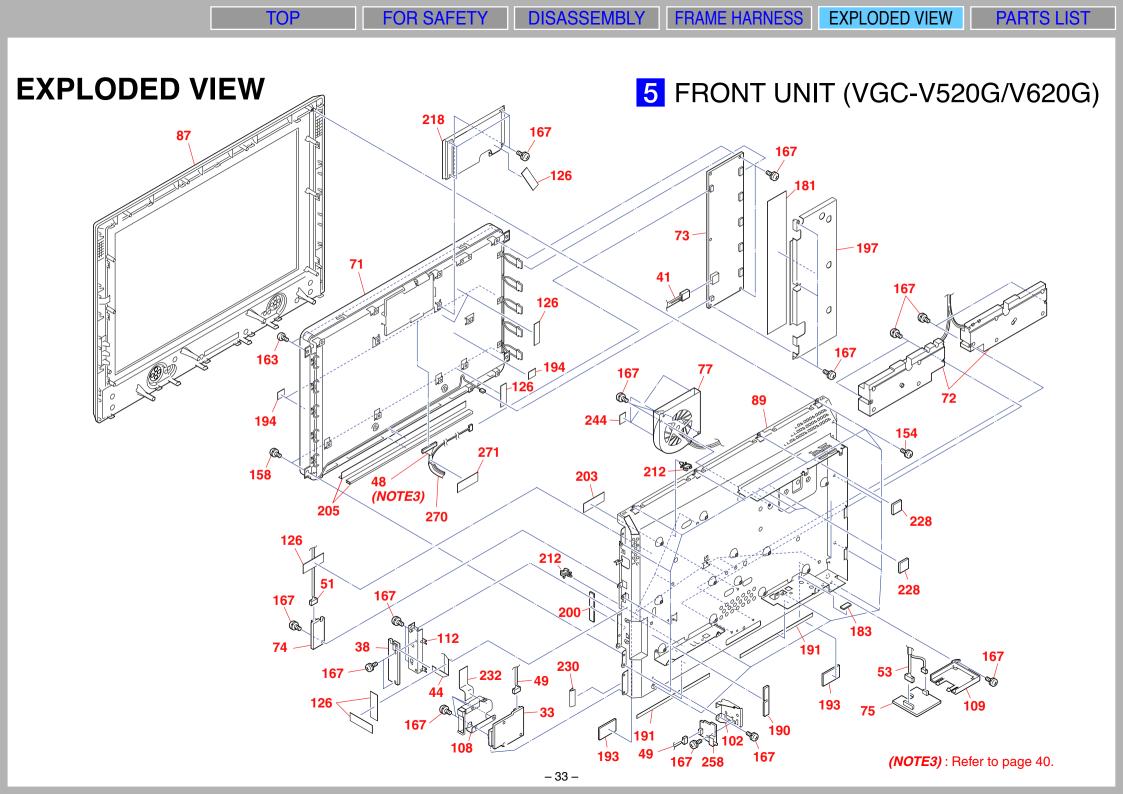
# **EXPLODED VIEW** 2 REAR UNIT (VGC-V517G/V617G) Main unit 125 91 167 82 115 204 206 167 (V517G) 167 1<mark>67</mark> (V617G) 170 185 40 (NOTE1) 173 157 122 130 265 264 172 (V617G) (V617G) 172 (NOTE1): Refer to page 39.

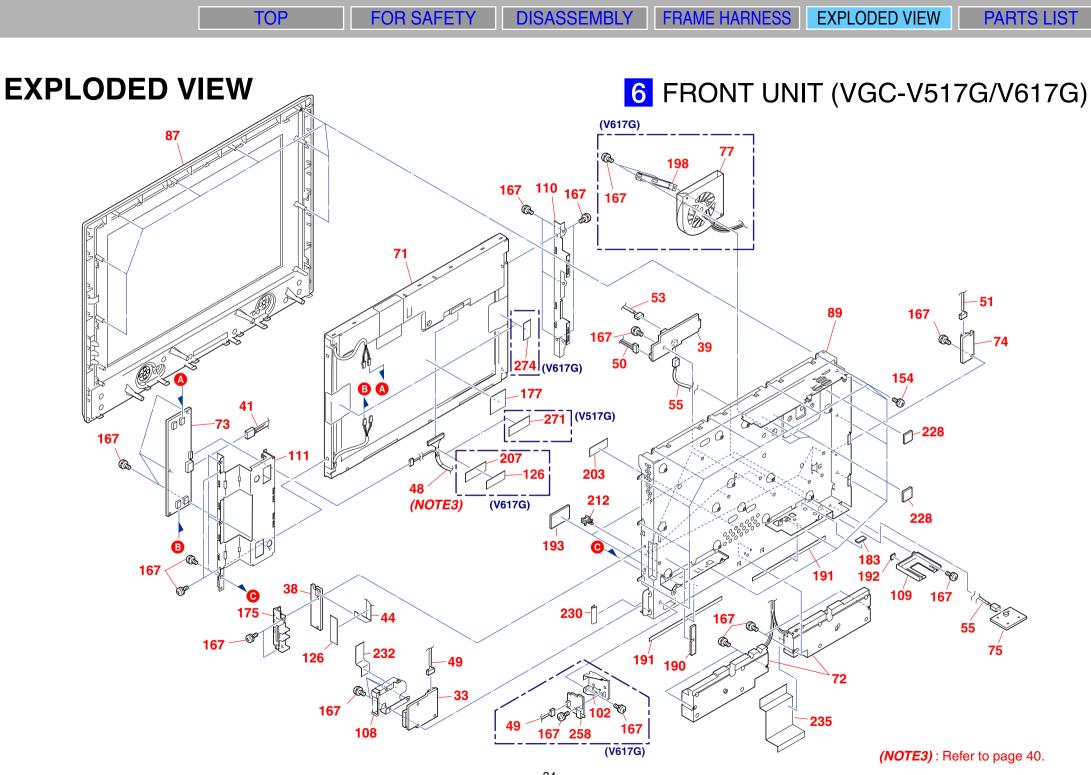
- 30 -

#### **EXPLODED VIEW** 3 MAIN UNIT (VGC-V520G/V620G) Front unit 266 (Pa Type) **260** (NOTE2) 207 48 **72** 176 260 259 O-C1 (So Type) 54 44 162 **226 ™**0-167 167 262 266 167 **-260** 126 156 23 (V520G) 269 4 (NOTE2) 35-227 210 / 189 179 167 167

(NOTE2): Refer to page 39.

TOP **FOR SAFETY** DISASSEMBLY FRAME HARNESS **EXPLODED VIEW PARTS LIST EXPLODED VIEW** 4 MAIN UNIT (VGC-V517G/V617G) (V617G) (V617G) (NOTE2) Front unit (So Type) (V617G) 226-\$ 260 162 **™**-167 167 266 77 (V617G) 167 (V617G) 269 (V517G) (NOTE2) (V617G) 23 156 208 179 210 167 (NOTE2): Refer to page 39. - 32 -





### **EXPLODED VIEW**





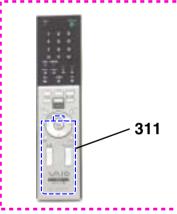
302 AC CORD



303 MOUSE



**304**REMOTE COMMANDER (RM-VC10U)



**307**CONNECTION CORD (F TYPE RF)





**308** CONNECTION CORD (RK-G129)



**309** VIDEO ADAPTER CABLE



#### **PARTS LIST**

#### NOTE:

- The parts listed here are for service, and therefore they may be different from the parts shown in circuit diagrams or used in the set.
- # Parts/components that are available in the commercial market.
- The number of the mark "2" is the quantity at the time of preinstallment.

#### **Basic List**

The parts in the "Basic List" will be refer red to as the part list.
 The part order should be taken place based on the part number in the list.

#### **Substitution List**

• If the repair part in the "Basic List" was not available, refer to order the "Substitution List" if available.

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number

specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

#### **Basic List**

				2004 FALL		Summer		
Ref No	Part No	rt No Description		V520G V517G			Note	
1	1-789-042-24	MOTHER BOARD (DI/H)	•	•			Note2:Refer to page 39	
	1-789-042-42	MOTHER BOARD (DI/H)		T	•	•	Note2:Refer to page 39	
2	A-1088-786-A	CPU(P4/3EG/7PM)ASSY(S)		•			6-707-380-01	
-	A-1089-602-A	CPU(P4/3.20EG/7PN) ASSY (S)	•		+	•	6-707-379-01	
	A-1090-822-A	CPU(P4/3.40EG/7PP)ASSY (S)		+	<b></b>	+	6-707-378-01	
3	1-787-165-23	FAN, DC (WITH HEATSINK)	•	•	•	•	0-707-378-01	
4		DDR400 512MB(HYS64D64320HU-5-C)	2		2	_		
4	6-600-388-01 6-600-426-01	DDR400 512MB(M368L6423FUN-CCC)		•	L <del>-</del> -L			
	7-300-000-40				-			
5		SILICON COMPOUND (G-765) 90G	•	•	•	•		
11	A-1085-340-A	HDD (W-CVXL80-2/WD2500BB-98GUA0/250GB)ASSY(S)	•					
	A-1085-341-A	HDD (W-CVXL80-2/WD2000BB-98GUA0/200GB)ASSY(S)		•				
	A-1126-699-A	HDD(W-CVXL80-2/WD2500BB/250GB) ASSY (S)			•			
	A-1126-695-A	HDD(W-CVXL80-2/WD200BB/200GB) ASSY (S)				•		
21	8-457-624-90	DRIVE, DVD DW-D56A-V2	•	•				
	8-457-664-10	DRIVE, DVD DW-D56A-V3			•	•		
22	1-797-051-21	W-DVD (DVR-K14VA)	•	•				
23	2-022-225-01	BRACKET, OPTICAL	•	•	•	•		
24	X-2023-819-3	ESCUTCHEON ASSY	•	•				
	X-2023-819-4	ESCUTCHEON ASSY		+	·	•		
	X-2023-820-2	ESCUTCHEON (PIONEER) ASSY	•	•				
31	1-761-824-32	CNR MODEM (GVC R5A W/COVER)			•	•		
32	1-761-824-32	CNX-263 BOARD	+ :		+ :	+ :		
			+ :	•				
33	1-761-928-11	CNX-264 BOARD			_	<u> </u>		
34	1-761-929-11	CNX-266 BOARD	•	•				
	1-761-929-12	CNX-266 BOARD			•	•		
	A-1095-407-A	ENX-30 (MC2 US) ASSY	•		•			
	A-1095-408-A	ENX-30 (VC2 US) ASSY		•				
	A-1119-190-A	ENX-30 (VCA_US) ASSY				•		
37	1-761-931-11	IFX-341 BOARD	•	•	•	•		
38	1-761-932-11	SWX-174 BOARD	•	•	•	•		
39	1-761-852-21	BOARD, MAIN (RF)		•				
	1-761-852-22	BOARD, MAIN (RF)			1	•		
40	1-468-853-13	POWER, SWITCHING	•	<del>                                     </del>	•	•	Note1:Refer to page 3	
	1-468-900-11	POWER, SWITCHING		·	+		Note1:Refer to page 3	
41	1-962-816-11	12V INVERTER HARNESS	•	•	•		140to 1.110to 1to page 0	
41	1-962-816-21	12V INVERTER HARNESS	<del>-</del>		ļ <u>.</u>	•		
42	1-962-815-11	12V RELAY HARNESS	-	•	•	-		
					_	+ -		
43	1-962-813-11	AUDIO HARNESS	•		•			
44	1-829-201-12	FFC (LED/SWITCH SWX-174)	•	•	•	•		
45	1-829-202-12	FFC (OPTICAL IFX-341)	•	•	•	•		
46	1-962-811-11	HARNESS (IFX-334)	•	•	•	•		
47	1-962-812-11	I.LINK/USB HARNESS	•	•	•	•		
48	1-962-809-13	LCD HARNESS (HITACHI)	•				Note3:Refer to page 4	
	1-962-810-13	LCD HARNESS (SAMSUNG)		•	1		Note3:Refer to page 4	
	1-962-809-14	LCD HARNESS (HITACHI)		T	•		Note3:Refer to page 4	
	1-963-810-12	LCD HARNESS (AUO)				•	Note3:Refer to page 4	
49	1-962-814-21	MS HARNESS	•		•	•	rtotootorto pago 1	
	1-962-814-31	MS HARNESS		•	+	· <del> </del>		
50	1-962-819-11	RF SWITCH HARNESS		•		•		
51	1-962-817-11	USB (IR) HARNESS	•		•	<del>  •</del>		
52	1-962-817-11	HARNESS (IDE HDD)						
				•		•		
53	1-962-614-22	HARNESS (USB RF)	•		•		ļ	
	1-962-614-11	HARNESS (USB RF)		•		•		
54	1-960-620-71	HARNESS (YU AUDIO)	•	•	•	•		
55	1-828-103-21	CABLE, ANTENNA (RF)		•		•		
71	A-1085-217-A	LCD UNIT (HI/20/WXGA) (S)	•		1	I		
	A-1070-136-A	LCD UNIT (SA/17/WXGA)ASSY(S)		•				
	A-1085-217-B	LCD UNIT (HI/20/WXGA) (S)		T	•	T		
	A-1126-706-A	LCD(AU/17/WXGA) ASSY (S)		†	†	•		
72	1-478-702-11	SPEAKER UNIT	•	•	•	•		
73	1-478-704-13	INVERTER UNIT (10LAMPS)	•					
70	1-478-705-13	INVERTER UNIT (4LAMPS)		•	+	+		
	1-478-705-13	INVERTER UNIT (4LAMPS) INVERTER UNIT (10LAMPS)		+ <del>-</del>	•	+		
		INVESTIBLE ONE (TOLANIES)		<b>_</b>		.1	I	

			2004 F			ummer	
Ref No	Part No	Description			V620G		Note
74	1-478-726-21	RAY-CATCHER UNIT	•	•	•	•	
75	1-478-907-22	RECEIVER (RF)	•	<del>-</del>	•		
	1-754-304-21 1-754-304-22	ANTENNA (RF)		•	<del></del>	•	
76	1-754-304-22	DC FAN (CHASSIS)	•	•	-	•	
70	1-787-163-13	DC FAN (CHASSIS)	·	<del>-</del>	•	•	
77	1-787-164-11	DC FAN (LCD)	•		Ť	_	
	1-787-164-12	DC FAN (LCD)	+		<del> </del>	•	
78	2-022-229-01	COVER, MEMORY	•	•	•	•	
80	2-022-264-02	COVER, RIGHT		•			
	2-022-264-11	COVER, RIGHT	•		•	•	
81	2-022-286-01	COVER (20), CENTER	•		•		
	2-022-325-01	COVER (17), CENTER		•		•	
82	2-022-260-03	COVER (20), REAR	•		•		
	2-022-324-03	COVER (17), REAR		•		•	
85	2-022-307-02	COVER (FRONT), STAND	•	•	•	•	
86	X-2021-203-2	COVER ASSY, STAND	•	•	•	•	
87	A-1082-363-A	COVER20 ASSY (METALLIC), FRONT	•		•		
	A-1082-364-D	COVER 17 ASSY (CLEAR), FRONT		•		•	
88 89	X-2021-149-3	COVER ASSY, SLIDE	•	•	•	•	
89	X-2021-144-2 X-2021-154-3	MAIN CHASSIS (20) ASSY	•		···		
	X-2021-154-3 X-2055-742-1	MAIN CHASSIS (17) ASSY MAIN CHASSIS(17) ASSY	· <del> </del>	•	+	•	
90	X-2055-742-1 X-2021-145-2	CHASSIS ASSY, SUB	•	•	•	•	
91	X-2021-145-2 X-2021-146-2	SHIELD ASSY		•	•		
92	X-2021-140-2	HINJI ASSY	•	•	•	•	
93	X-2021-151-4	PS METAL ASSY	•	•	•	•	
# 94	X-2021-131-4 X-2022-074-1	FOOTASSY	•	•	•	•	
95	2-022-287-01	PANEL, IO (L)	•	•	•	•	
96	2-022-288-01	PANEL, IO (R)	•	•	•	•	
97	2-022-289-01	PANEL, PC CARD (20)	•		•		
	2-022-326-01	PANEL, PC CARD (17)		•	1	•	
98	2-022-230-01	SHIELD (L), BOTTOM	•	•	•	•	
99	2-022-231-02	SHIELD (R), BOTTOM	•	•	•	•	
100	2-022-311-01	SHIELD, TOP	•	•	•	•	
101	2-022-226-01	BRACKET, SUPPORT	•	•	•	•	
102	2-189-318-02	BRACKET (W-LAN)	•		•	•	
108 109	2-022-232-02 2-189-319-01	MSBD BRACKET BRACKET (2.4G), RF	•	•	•	•	
109	2-159-429-02	RF BRACKET	ļ <b>-</b>	•	ļ <del>.</del>	•	
110	2-022-317-01	LCD BRACKET (L)		•		_	
	2-594-822-01	LCD BRACKET (L) (A)			+	•	
111	2-022-318-02	BRACKET (R), LCD		•			
	2-594-823-01	LCD BRACKÉT (R) (A)			1	•	
112	2-025-555-01	SWBD BRACKET (20)	•		•		
113	2-022-261-02	POWER BUTTON (20)	•		•		
	2-149-287-01	POWER BOTTON (17)		•		•	
114	2-022-265-01	DOOR, CONNECTOR	•	•	•	•	
115	A-1092-884-A	ROTATION ASSY (T1.5) (S)	•	•	•	•	
119	2-022-668-01	DOOR (20), PC CARD	•		•		
	2-022-669-01	DOOR (17), PC CARD		•	<u> </u>	•	
122	2-148-383-01	COVER, SPACE	•	•	•	•	
124 125	4-649-870-11 2-580-090-01	LABEL (ETHER), CAUTION ID LABEL	•	•	•	•	
125	2-580-090-01	ID LABEL	ļ <u>.</u>	•	+		
	2-599-552-01	LABEL, ID		<del>-</del>	•		
	2-599-553-01	LABEL, ID	·		† <u>-</u>	•	
126	4-676-734-01	TAPE, UL	•	•	•	•	
129	2-189-120-02	LABEL (L), I/O	•	•	•	•	
130	2-189-121-02	LABEL (AY), I/O	•	•	•	•	
151	2-108-226-01	+B2X3	•	•	•	•	
153	7-682-144-04	SCREW +P 3X3	•	•	•	•	
154	2-067-021-01	TAPPING +P3	•		•		
	2-067-021-11	TAPPING +P3		•		•	
156	2-109-403-01	+PS3X22	•	•	•	•	
157	2-067-022-01	+PS3X8	•	•	•	•	
158	2-067-018-01	+PS4X6	•		•		
162	4-678-103-01	POSITIONING SCREW	•	•	•	•	
163	2-067-017-01	SCREW (M4), POSITIONING	•		•		

	1000 511 1000 0						
			2004 FALL 2005 Summer V520G V517G V620G V617G				
Ref No	Part No	Description			V620G	V617G	Note
164	7-627-853-07	PRECISION SCREW +P 2X2 TYPE 3	•	•			
l	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3			•	•	
165	2-050-805-01	SCREW (+K) (#6-32UNC 1/4)	•	•	•	•	
166	4-645-944-22	SCREW (SW) (NO.6-32UNC)	•	•	•	•	
167	4-679-053-01	SCREW,+PS3X6	•	•	•	•	
168	3-081-229-01	SCREW (M3X5)	•	•			
170	2-067-023-01	+B3X4	•	•	•	•	
172	4-672-839-11	HEAD, M3 FLAT	•	•	•	•	
173	X-2022-907-1	SHIELD ASSY, PS	•		•	•	
174	2-159-536-01	TAPE, PS SHIELD	•		•	•	
175	2-149-100-03	SW HOLDER (17)		•		•	
176	2-159-619-01	TAPE, ACETATE	•	•	•	•	
177	2-176-668-01	TAPE, ACETATE	•	•	•	•	
178	2-177-837-01	TAPE, ACETATE	•	•	•	•	
179	2-177-104-01	TAPE (50X70), ALUMINUM	•	•	•	•	
181	2-055-987-01	INSULATER (INVERTER 20)	•	_	•	·	
183	2-514-965-01		+ -	•	•	•	
		GASKET (2.5X5X10)					
185	2-177-101-01	GASKET (2X7X130)	•	•	•	•	
186	2-177-106-01	GASKET (7X10X80)	•	•	•	•	
187	2-177-100-01	GASKET (AYAME)	•	•	•	•	
188	2-159-545-01	GASKET (L10X10X25)	•	•	•	•	
189	2-176-587-01	GASKET (P3X8X61)	•	•	•	•	
190	2-159-542-01	GASKET (PCMCIA 7X10X65)	•	•	•	•	
191	2-177-169-01	CUSHION (T0.5 5X170)	•	•	•	•	
192	2-159-962-01	CUSHION (T2 10X10)	•	•	•	•	
193	2-177-170-02	CUSHION (T2 30X40)	•	•	•	•	
194	2-148-121-01	TAPE, CONNECTOR	•		•		
197	2-148-374-02	SHIELD (INVERTER 20)	•		•		
198	2-636-864-01	PLATE (LCD FAN)				•	
200	2-177-410-01	SPACER (T0.8 8X70)	•		•		
203	2-177-107-01	TAPE (15X40), NICKEL CLOTH	•	•	•	•	
204	2-177-108-01	TAPE (30X50), NICKEL CLOTH	•	•	•	•	
205	2-515-166-01	TAPE (340X30), ALUMINUM	•		•		
206	2-177-102-01	TAPE (40X70), NICKEL CLOTH	•	•	•	•	
207	2-176-599-01	TAPE (50X15), NICKEL	•	•	•	•	
208	2-177-160-01	TAPE (7X11), NICKEL	•	•	•	•	
209	2-177-684-11	TAPE (IDE), NICKEL	•	•	•	•	
210	2-176-588-01	TAPE (PCMCIA), NICKEL CLOTH	•	•	•	•	
211	2-159-547-01	TAPE (PS TOP), NICKEL	<del>  •</del>	•	•	•	
212	4-999-506-01	CLIP, HARNESS	•	•	•	•	
213	2-159-964-01	NON WOVEN CLOTH (MEMORY COVER)		•	•	•	
214	2-159-444-01	SADDLE, WIRE	+ -	•	•	•	
			+ :	•	•	•	
218	2-148-375-01	SHIELD (LCD-BD 20)		_	_		
221	2-178-263-01	CLAMP, AC	•	•	•	•	
222	2-186-828-01	SPACER (CONVEX)	•	•	•	•	
226	9-885-068-36	PLUG OF SPDIF (FOR SERVICE)	•	•	•	•	
227	2-345-120-01	CLAMP, WIRE PRESS	•	•	•	•	
228	2-318-604-01	SHEET (15X15), HEAT CONDUCTION	•	•	•	•	
229	2-318-852-01	DUCT	•	•	•	•	
230	2-320-037-01	NON WOVEN CLOTH (MS BRACKET)	•	•	•	•	
231	2-349-336-01	SHIELD (HINGE)	•	•	•	•	
232	2-514-266-01	TAPE (60X25), ALUMINUM	•	•	•	•	
234	2-514-269-02	TAPE (50X95), ALUMINUM	•	•	•	•	
235	2-514-270-01	TAPE (50X105), ALUMINUM		•		•	
236	2-514-275-01	TAPE (75X35), ALUMINUM	•	•	•	•	
238	2-541-638-01	GASKET (PS,8X10X165)	•	•	•	•	
240	2-349-841-01	GASKET (3X10X30)	•	•	•	•	
244	2-541-630-01	STOPPER, LCD	•		•		
250	2-514-990-02	TAPE (MODEM), NICKEL	•	•	•	•	
256	2-056-666-02	CLAMP (PURSE LOCK DIA. 8)	•	•	•	•	
257	2-547-981-01	TAPE (14X25), ALUMINUM	•	•	•	•	
258	1-789-043-11	SWX-184 BOARD	•		•	•	
259	1-789-014-11	CARD, WIRELESS LAN	•		•	•	
260	1-400-255-21	FERRITE CORE	•		•	•	
262	1-754-354-11	ANTENNA, FILM	•		•	•	
263	1-754-354-21	ANTENNA, FILM	•		•	•	
264	2-189-316-01	SWITCH (W-LAN), SLIDE	<del>  •</del>		•	•	
265	2-189-317-02	LENS (W-LAN), SLIDE	+ +		•	•	
266	2-349-828-01	TAPE, CORE	+ +		•	•	
200	2 040-020-01	1711 L, OOTIL					

			2004 FALL		2005 Summer		
Ref No	Part No	Description	V520G	V517G	V620G	V617G	Note
267	2-345-480-01	+P PT 1.7X04 CM3	•	•			
268	2-580-080-01	LABEL, MODEL NUMBER	•				
	2-580-081-01	LABEL, MODEL NUMBER		•			
	2-599-567-01	LABEL, MODEL NUMBER			•		
	2-599-568-01	LABEL, MODEL NUMBER				•	
269	2-588-002-01	TAPE (5X25), ALMINUM	•	•			
270	2-592-307-01	CUSHION(LVDS)	•		•		
271	4-663-105-11	TAPE, COPPER LEAF	•	•	•		
274	2-176-668-11	TAPE, ACETATE				•	
C1	1-528-174-31	BATTERY, LITHIUM (CR2032)	•	•	•	•	
C3	7-640-011-95	SANKOL (CFD-5010Z) 1KG	•	•	•	•	

# **Accessories & Packing Materials List**

			2004 F	ALL	2005 S	ummer	
Ref No	Part No	Description	V5200	V517G	V620G	V617G	Note
# 301	1-478-887-13	KEY BOARD (US)	•				
	1-479-160-11	KEY BOARD		•		•	
	1-478-887-21	KEY BOARD (US)	•	1	•		
<b>∆# 302</b>	1-827-924-11	CORD, AC	•	•	•	•	
# 303	1-797-022-31	MOUSE	•				
	1-796-824-81	MOUSE		•		•	
	1-797-022-32	MOUSE			•		
	1-797-022-41	MOUSE		]	•		
# 304	1-479-183-11	REMOTE COMMANDER (RM-VC10U)	•	•	•	•	
# 307		CODE (F TYPE RF), CONNECTION	•	•	•	•	
# 308	1-757-520-11	CODE (RK-G129), CONNECTION	•	•	•	•	
# 309	1-757-517-21	CABLE, CONNECTOR WITH VIDEO	•	•	•	•	
# 310	9-885-048-25	REST (BLACK), PARM		•		•	
# 311	9-885-067-84	BATTERY COVER (REMOTE COMMANDER)	•	•	•	•	
# 312	9-885-049-47	COVER (B), BATTERY		•		•	
		COVER (B), BATTERY	•	]	•		
#	2-586-514-01	LEGAL SAFETY BOOKLET (EN)(D)	•	•			
#	2-589-140-01	WELCOMEMAT (EN/SP)(D)	•	•			

### **Substitution List**

			2004 F	ALL	2005 S	ummer	
Ref No	Part No	Description	V5200	V517G	V620G	V617G	Note
1	1-789-042-13	MOTHER BOARD (DI/H)	•	•			Note2:Refer to page 39.
	1-789-042-32	MOTHER BOARD (DI/H)		1	•	•	Note2:Refer to page 39.
2	A-1068-781-A	CPU(P4/3.20EG/7E5)ASSY(S)	•				6-706-698-01
11	A-1063-766-A	HDD (M-CALYPSO/7Y250P0/250GB) ASSY (S)	•				
	A-1107-240-A	HDD (M-CALYPSO/7Y250P0/250GB_2)ASSY(S)	•				
	A-1063-769-A	HDD (M-CALYPSO/6Y200P0/200GB) ASSY (S)		•			
	A-1107-241-A	HDD (M-CALYPSO/6Y200P0/200GB_2)ASSY(S)		•			
	A-1085-218-A	HDD (S-APLUS/ST3200822A/200GB) ASSY (S)		•			
	A-1085-340-A	HDD (W-CVXL80-2/WD2500BB/250GB)ASSY(S)			•		
	A-1107-240-A	HDD (M-CALYPSO/7Y250P0/250GB_2)ASSY(S)			•		
	A-1126-703-A	HDD (M-SBR/7B250R0/250GB) ASSY (S)			•		
	A-1085-341-A	HDD (W-CVXL80-2/WD2000BB/200GB)ASSY(S)				•	
	A-1085-218-A	HDD (S-APLUS/ST3200822A/200GB) ASSY (S)				•	
	A-1107-241-A	HDD (M-CALYPSO/6Y200P0/200GB_2)ASSY(S)				•	
	A-1126-705-A	HDD (M-SBR/6B200P0/200GB) ASSY (S)				•	
	A-1134-816-A	HDD(S-APLUS/200GB) ASSY(S)		1		•	
21	8-457-624-90	DRIVE, DVD DW-D56A-V2			•	•	
34	1-761-929-12	CNX-266 BOARD	•	•			
40	1-468-853-13	POWER, SWITCHING		•			Note1:Refer to page 39.
	1-468-900-12	POWER, SWITCHING		1		•	Note1:Refer to page 39.

#### (NOTE1) -

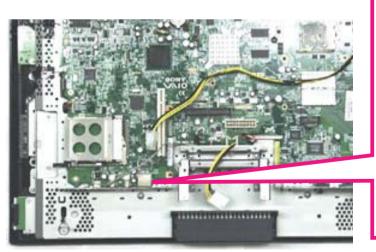
• Parts to be used differ depending on the power supply used. Be careful to use appropriate parts.

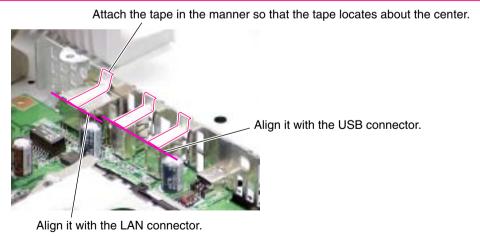
		1-468-853-13 POWER, SWITCHING (295W)	1-468-900-11,-12 POWER, SWITCHING (218W)
SHIELD ASSY, PS (Ref.No.173)	X-2022-907-1	•	×
TAPE, PS SHIELD (Ref.No.174)	2-159-536-01	•	×

#### - (NOTE2) -

• Parts to be used differ depending on the suffix of the M/B. Be careful to use appropriate parts.

		1-789-042-11,-12,-13 1-789-042-21,-22,-23	1-789-042-14 1-789-042-24 or later
TAPE (5x25), ALMINUM (Ref.No.269)	2-588-002-01	Three sheets	Not used





#### (NOTE3) -

• The tape to fasten the LCD harness differs depending on the suffix of the harness. Be careful to use the appropriate tape.

		1-962-809-11,-12 1-962-810-11,-12	1-962-809-13 1-962-810-13 or later	1-963-810-11,-12
TAPE (50X15), NICKEL (Ref.No.207)	2-176-599-01	•	×	•
TAPE, COPPER LEAF (Ref.No.271)	4-663-105-11	×	•	×
TAPE, UL (Ref.No.126)	4-676-734-01	×	×	•

<sup>\*</sup> Changed point between the harness -12 and -13 is deletion of the acetate tape next to the connector.

### **Revision History**

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2005.01.20	First Edition	
-02	Ver. 2	2005.05.18		FIT-D2005_049
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